

© WPI / DERWENT

- AN - 1986-216851 [25]
- TI - Biotin determ. - using labelled avidin and immobilised biotinised protein
- AB - J61149863 Method of determining biotin which comprises adding a sample liq. contg. biotin and a labelled avidin in an immobilised biotinised protein, measuring the activity of the labelled matter bound with the biotinised protein, and comparing it with that of a standard liq.
- A claimed reagent for determining biotin comprises containing labelled avidin and immobilised biotinised protein.
 - Labelled avidin used in the method is formed by labelling basic albumin-like crystalline protein contained in domestic fowl white by peroxidase, beta-galactosidase, etc. Biotinisation of protein (e.g. albumin, globulin, etc.) is carried out by treating biotin derivative (e.g. N-hydroxysuccinimidobiotin) and protein in a solvent. The weight ratio of biotin derivative to protein is 1:1 to 1:20, pref. near 1:5. The immobilisation of the biotinised protein e.g. biotinised polylysine is pef. carried out under the conditions of 40-50 deg.C, 30-60 mins. and 0.05-1.0% concn. of polylysine. The concn. of labelled avidin added is 10-1000 ng/ml, pref. 20-100 ng/ml.
 - ADVANTAGE - The amt. of sample liq. can be about 1/50 time that in microbiological determining method and also the time required for the determination can be shortened 5 hrs. in contrast with 24-72 hrs. in the microbiological method. As the determining procedures are very simple, a large number of samples can be determined at a time. Esp. advantageously used in the case of determining biotin in blood or urine.
- IW - BIOTIN DETERMINE LABEL AVIDIN IMMOBILISE PROTEIN
- PN - JP61149863 A 19860708 DW198633 005pp
- IC - C12Q1/00 ;G01N33/58
- MC - B04-B04A6 B04-B04B B04-B04D5 B05-A04 B06-F03 B11-C07B5 B12-K04A
J04-B01B
- S03-E14H
- DC - B02 B04 J04 S03
- A - (SSSE) SS PHARMACEUTICAL KK
- AP - JP19840272528 19841224
- PR - JP19840272528 19841224